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Intelligence Handbook

Soviet Land Armaments

Secret SR 76-10135 June 1976

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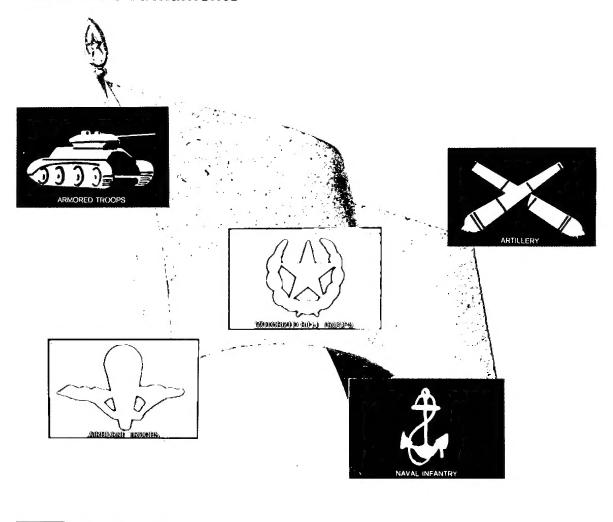


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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
June 1976

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Intelligence Handbook Soviet Land Armaments



Comments and queries regarding this publication are welcome. They may be directed to the Regional Analysis Division, Office of Strategic Research

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	This handbook describes selected weapons used in the ground forces of the Soviet Union, its allies, and countries that have received Soviet aid. It is not a complete catalog of all Soviet weapons nor a compilation		
	of the modifications to each type. Some of the weapons are no longer being produced but are still widely used. Others, found only in limited		
	numbers in the Soviet forces, have been exported in quantity. The USSR's East European allies also produce weapons—some are exact copies of Soviet models while others are modifications of basic Soviet		
	designs. Because this handbook was prepared for printing before the Intel-		
	ligence Community began reporting weights and measures in both metric and conventional units, all data are expressed in the conventional units		
	only.		
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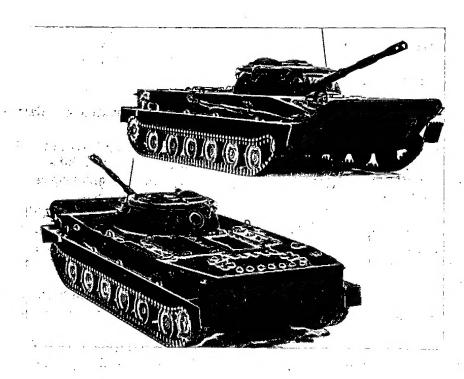
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Tanks

PT-76 Light Amphibious Tank



Characteristics

Main armament 76mm tank gun
Weight
Speed, land
water 6.3 miles per hour
Cruising range 160 miles
Crew

Remarks

Standard reconnaissance tank in Soviet and other Warsaw Pact forces and in countries which have received Soviet military aid. Introduced in 1952. Used by Communist forces in Southeast Asia. Lightly armored and undergunned by present Soviet standards. Chassis is used for BTR-50P APC and FROG-2, 3, 4, and 5 rocket launchers.

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Tanks

T-34/85 Medium Tank



Characteristics

Main armament	M-1944 85mm tank gun
Weight	35.3 tons
Speed	35.3 tons
Cruising range	190 miles -
Crew	4

Remarks

First observed in 1944. Replaced in first-line Soviet units by T-54/55 series, but still retained in stockpiles and used by other Warsaw Pact forces and in countries which have received Soviet military aid.

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Tanks

T-54 Medium Tank



Characteristics

Main armament	. 100mm tank gun
Weight	
Speed	30 miles per hour
Cruising range	250 miles
Crew	

Remarks

First observed in 1949. Distinguishable by hemispherical turret, low silhouette, and 100mm gun. Standard Soviet medium tank until late fifties, now largely replaced in first-line units by T-55 and T-62. Used by other Warsaw Pact forces and in countries which have received Soviet military aid. A Chinese-produced version, T-59, has been exported to Pakistan.

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Tanks

T-55 Medium Tank



Characteristics

Main armament 100mm tank gun
Weight40 tons
Speed
Cruising range
Crew

Remarks

Introduced in 1959. Distinguishable from T-54 by flush hatch replacing loader's cupola, and infrared devices mounted on turret and hull front. Czechoslovak version has AA machine gun. Used in Warsaw Pact countries, Middle East, India, and Peru.

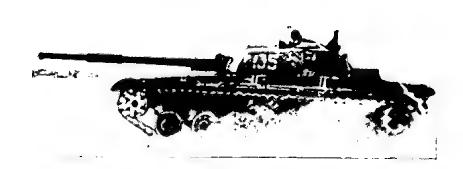
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	Tanks
	T-62 Medium Tank
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	Tourselle of the second of the
	Characteristics Main armament 115mm smoothbore gun
	Weight
	Remarks
	First observed in 1961. Distinguishable from T-54/55 series by spacing of road wheels, larger, more circular turret, longer hull, and
	115mm smoothbore gun with bore evacuator mounted in middle of tube. Used by Soviet and other Warsaw Pact armies. Has been exported to Middle East, India, and Afghanistan.
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Tanks

T-72 Medium Tank



Characteristics

Remarks

Early prototypes first observed in May 1970. Substantial numbers of a variety of prototypes produced and extensively tested from the mid-sixties through the early seventies. Has new suspension system and probably improved armor protection. Mounts a large caliber, smoothbore gun. Has an automatic loader, thus eliminating one crew member. Large-scale series production probably began in 1974.

	SECRE
·	Tanks
•	JS-3 Heavy Tank
	Characteristics
Main arı Weight	mament 122mm tank gun 50.6 tons
Speed Cruising	g range
	Remarks
1945. Largely repla	, angular armor and low silhouette. Introduced in aced in Soviet units by T-10 heavy tank, but still have received Soviet military aid.
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Tanks

T-10 Heavy Tank



Characteristics

Main armament	122mm tank gun
Weight	
Speed	30 miles per hour
	155 miles

Remarks

Entered service in 1953. Resembles JS-3, which it has largely replaced. Distinguishable from JS-3 by more angular hull armor, 14 vice 12 road wheels, and bore evacuator mounted on gun. Improved version, T-10M, first seen in 1958, has overhang welded on rear of turret, longer gun, and night vision devices. Some later versions have longer gun, improved muzzle brake, and improved turret. Some have welded rear overhang.

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Armored Personnel Carriers

BTR-152 Armored Personnel Carrier



Characteristics

Main armament	12.7mm machine gun
Weight	9.9 tons
Speed	40 miles per hour
Cruising range	490 miles
Capacity	1 driver, 18 troops

Remarks

Introduced in 1950 and produced in many different versions—covered, open top, and mounting AA guns. Not amphibious. Gradually being replaced by BTR-60PB and BMP armored personnel carriers. BTR-152 for years was standard armored personnel carrier in Soviet and other Warsaw Pact forces. Also used by Arab forces in the Middle East.

Armored Personnel Carriers

BTR-40 Armored Personnel Carrier



Characteristics:

Main armamentusually 7.62mm	Main ar
machine gun	
Weight 5.8 tons	Weight
Speed50 miles per hour	Speed
Cruising range	
Capacity	

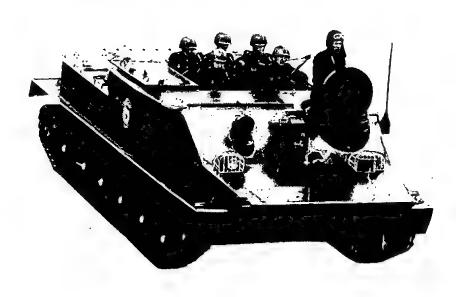
Remarks

Introduced in 1951. Used primarily as command and reconnaissance vehicle. Some versions mount twin 14.5mm antiaircraft heavy machine guns in open troop compartment. Replaced in Soviet and some other Warsaw Pact forces by BRDM. Used in countries which have received Soviet military aid.

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Armored Personnel Carriers

BTR-50PK Armored Personnel Carrier



Characteristics

Main armament usually 7.62mm
machine gun
Weight
Speed, land
water6 miles per hour
Cruising range
Capacity2 crewmen, 18 troops

Remarks

Amphibious carrier on PT-76 tank chassis. Original version (BTR-50P), first observed in 1955, does not have overhead armor for troop compartment. Other versions, the BTR-50PU command vehicle and the Czechoslovak OT-62, have two cupolas in front. Used in Warsaw Pact forces and countries which have received Soviet military aid.

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Armored Personnel Carriers

BTR-60PB Armored Personnel Carrier



Characteristics

Main armament usually one 14.5mm and
one 7.62mm machine gur
Weight11 tons
Speed, land50 miles per hou
water 6.2 miles per hou
Cruising range
Capacity 1 driver, 10 troops

Remarks

Amphibious. Original version (BTR 60P), first observed in 1961, has open top. Another version (BTR 60PK) has overhead armor but no turret. Used in Soviet and other Warsaw Pact forces, and seen in Cuba, and Middle East. Similar vehicle, OT-64, is produced in Czechoslovakia.

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Armored Personnel Carriers

BMP Amphibious Infantry Combat Vehicle



Characteristics

Main armament 73mm gun, Sagger
antitank missile
Weightabout 14 tons
Speed, land
water4 miles per hour
Cruising range 180 miles
Capacity3 crewmen, 8 troops

Remarks

Amphibious armored vehicle first observed in 1967. Replacing armored personnel carriers in some Soviet and Warsaw Pact units. Also being produced in Czechoslovakia for distribution throughout the Warsaw Pact. Observed in Middle East.

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Armored Personnel Carriers

BMD Airborne Amphibious Combat Vehicle



Characteristics

Main armament	73mm gun and a
	Sagger antitank missile
Weight	about 7 tons
Crew	

Remarks

First observed in 1970. It is amphibious and air droppable, and has a variable height suspension system. Has the same turret as the BMP combat vehicle, including the 73mm smoothbore gun and a launch rail for the Sagger antitank guided missile. Apparently is intended as replacement for ASU-57 and ASU-85 in airborne units.

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Assault Guns

ASU-57 57mm Airborne Assault Gun



Characteristics

Weight
Speed
Cruising range 155 miles
Crew

Remarks

Lightly armored with low silhouette and open top. Can carry three riflemen in addition to three-man crew. Assigned to Soviet airborne units. Can be air-dropped. Largely being replaced by BMD. Probably still used for training.

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Assault Guns

ASU-85 85mm Airborne Assault Gun



Characteristics

Weight						14 tons
Speed						28 miles per hour
						150 miles
Crew						

Remarks

Probably can be air-dropped by AN-22. Designed to provide antitank support for airborne forces. Full armor and larger gun make it an improvement over ASU-57. First observed in 1962. Used widely in Soviet forces and to a limited extent with Polish forces.

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	Assault Guns	SECRET
		SU-100 100mm Assault Gun
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Characteristics

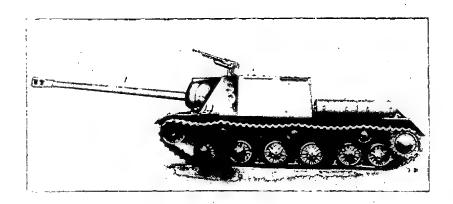
Weight			 	 33.1 tons
				. 35 miles per hour
				190 miles
Crew			 	

Remarks

Mounts 100mm gun on T-34 medium tank chassis. First observed in 1945. Still used in some Soviet units and other Warsaw Pact forces, as well as in countries which have received Soviet military aid.

Assault Guns

JSU-122 122mm Assault Gun



Characteristics

Weight	 	 50.6 tons
Speed	 	 23 miles per hour
Cruising range	 	 85 miles
Crew	 	

Remarks

Consists of 122mm artillery piece mounted in armored superstructure on JS heavy tank chassis. First observed in 1944. Probably obsolete in Soviet forces but still in use in other Warsaw Pact countries.

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	Assault Guns
	JSU-152 152mm Heavy Assault Gun
	Constitution of the state of th
	Characteristics Weight
Ū	Speed
	Remarks
0	Mounts 152mm gun with limited traverse and protruding mantlet on JS heavy tank chassis. Similar in appearance to JSU-122 but has shorter gun. First observed in 1944. Still used in some Soviet units
	and in other Warsaw Pact forces.
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Reconnaissance Vehicles

BRDM Amphibious Armored Reconnaissance Vehicle



Characteristics

Main armament usually 7.62mm machine
gun, antitank missile
Weight 6.17 ton
Speed, land50 miles per hou
water 5.5 miles per hou
Cruising range
Crew

Remarks

Has four main wheels. Four auxiliary wheels in belly can be raised or lowered as needed. First observed in 1959. Produced in three other versions, each specially designed to carry Snapper, Swatter, or Sagger antitank missiles. Used by Soviet and some other Warsaw Pact forces and in countries which have received Soviet military aid.

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	Reconnaissance Vehicles		
	BRDM-2 A Armored Reconnaissa	Amphibious nce Vehicle	
	Characteristics		
	Main armament 14.5mm machine gun,		
	7.62mm machine gun Weight about 7.5 tons Speed60 miles per hour Cruising range		
	Grew		
ð	Remarks First observed in 1966. Has been replacing original BRDM in		
- 	reconnaissance role. Basically same type of vehicle with four road wheels and four auxiliary wheels in belly. BRDM-2 distinguishable by heavy machine gun mounted in conical turret. Another version,		
- N	having no turret, has been fitted with Sagger antitank guided missiles.		
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Antitank Guided Missiles





Characteristics

Range, maximum 2,500 yards
minimum
Guidance wire
Armor penetration 12 inches
Launch platforms GAZ-69 and BRDM
Cruising range, GAZ-69 225 miles
BRDM 310 miles
Missile load, GAZ-694
BRDM 3

Remarks

Mounted on either GAZ-69 truck or more modern BRDM amphibious armored reconnaissance vehicle. GAZ-69 mounts four missiles in square. BRDM mounts three abreast on retractable pylon. AT-1 is distinguished from AT-2 and AT-3 by larger, more triangular fins. Introduced in early sixties, AT-1 has been exported to Warsaw Pact countries, Afghanistan, Cuba, and Egypt.

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Antitank Guided Missiles

AT-2 Swatter



Characteristics

Range, maximum 3,300 yards
minimum600 yards
Guidanceradio
Armor penetration 19 inches
Launch platform BRDM
Cruising range
Missile load4

Remarks

Introduced in early sixties. BRDM amphibious vehicle mounts four AT-2s on retractable pylon. Used in Soviet and some other Warsaw Pact forces.

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Antitank Guided Missiles

AT-3 Sagger



Characteristics

Range, maximum	. 3,300 yards
minimum	550 yards
Guidance	
Armor penetration	16 inches
Launch platform	BRDM
Cruising range	310 miles
Missile load	14

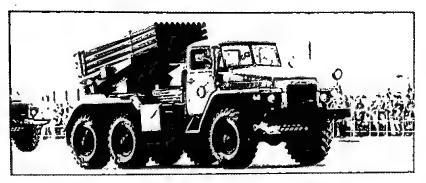
Remarks

Introduced in mid-sixties. BRDM and BRDM-2 amphibious vehicles can each mount a group of six AT-3s on retractable pylon with armored cover. Portable version of AT-3 can be carried and fired by one man. Used by forces of Warsaw Pact, Yugoslavia, Afghanistan, North Korea, North Vietnam, and Middle East.

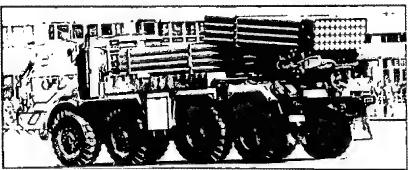
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Unguided Rockets

BM-21, RM-70 122mm Rocket Launcher



BM-21



RM-70

Characteristics

	BM-21	RM-70
Vehicle Weight (with full	Ural-375 truck	Tatra-813 truck
rocket load)	14.5 tons	28.6 tons
Cruising range	470 miles	560 miles
Rocket load	40	80
Range of rocket		
maximum	22,400 yards	same
minimum	330 yards	same
Propellant	solid	same

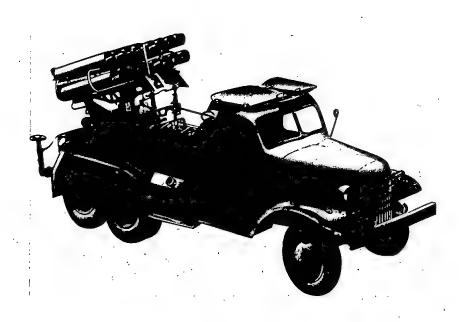
Remarks

BM-21 first observed in 1964. Smallest caliber postwar Soviet rocket launcher. Four banks of 10 launchers. First launcher to be mounted on Ural-375 truck. Air transportable. In 1972 BM-21 was seen mounted on Tatra-813 truck in Czechoslovakia. Czech version—designated RM-70—has mechanized reloader with salvo of 40 additional rockets mounted between cab and rear. Reloading can be accomplished within 3 minutes.

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Unguided Rockets

BM-14-16 140mm Rocket Launcher



Characteristics

Vehicle	ZIL-151 truck
Weight (with full	
rocket load)	9.1 tons
Cruising range	
Rocket load	
Range of rocket	
maximum	. 10,700 yards
minimum	440 yards

Remarks

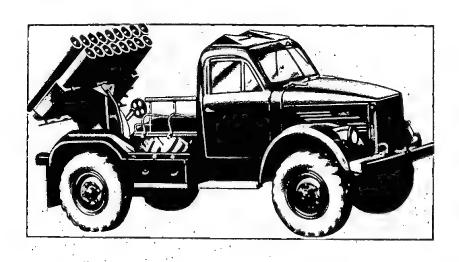
Mounted in two banks of eight launchers. BM-14 is replacement for 16-round BM-13. First observed in 1954. Used in Warsaw Pact forces, China, and Indonesia.

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Unguided Rockets

BM-14-17 140mm Rocket Launcher



Characteristics

Vehicle	GAZ-63 truck
Weight (with full	
rocket load)	4.7 tons
Cruising range	400 miles
Rocket load	
Range of rockets	
maximum	
minimum	440 yards

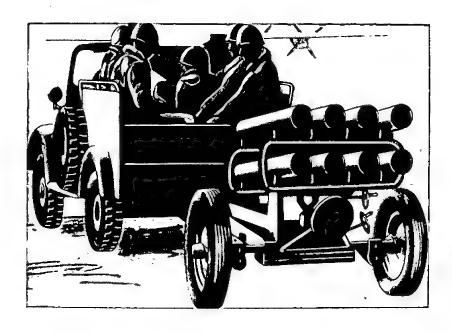
Remarks

Mounted on much lighter truck than BM-14-16. Lacks stabilizing jacks of heavier 140mm systems. First observed in 1959. Used by Soviet and Polish forces.

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Unguided Rockets

140mm Airborne Rocket Launcher



Characteristics

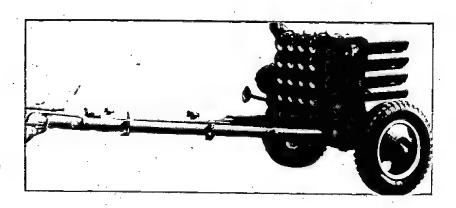
Weight (with full	
rocket load)	1,500 pounds
Rocket load	8
Range of rockets	
maximum	
minimum	440 yards

Remarks

One of two towed rocket launchers used by Soviet and other Warsaw Pact forces. Well suited for airborne operations because of light weight. First observed in 1962.

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	Unguided Rockets	SECRET	
П	A	M-1965 140mm irborne Rocket Launcher	



Characteristics

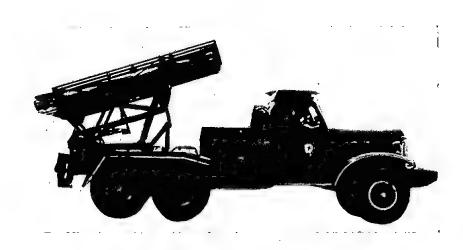
Weight (with full	
rocket load)	4,400 pounds
Rocket load	
Range of rockets	
maximum	10,700 yards
minimum	

Remarks

Sixteen tubes arranged in square. Well suited for airborne operations. First observed in 1964.

Unguided Rockets

BMD-20 200mm Rocket Launcher



Characteristics

Vehicle	ZIL-157 truck
Weight (with full	
rocket load)	9.6 tons
Cruising range	370 miles
Rocket load	4
Range of rocket	
maximum	22,200 yards
minimum	2,930 yards
Propellant	solid

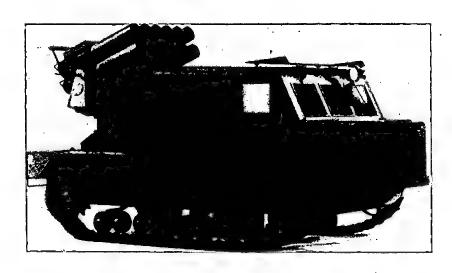
Remarks

First seen in 1954 on ZIL-151 truck, later on ZIL-157. Mounted in single bank of four open-frame launchers. Has been seen in Cuba and may be in use in some Warsaw Pact forces.

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Unguided Rockets

BM-24 240mm Rocket Launcher



Characteristics

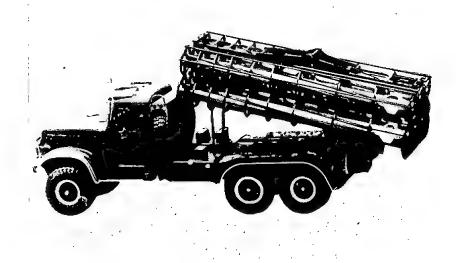
Vehicle	. AT-S medium tracked artillery tractor
Weight (with full	٠.
rocket load)	16 tons
Cruising range	155 miles
Rocket load	
Range of rocket	
maximum	8,000 yards
minimum	4,820 yards
	solid

Remarks

Introduced in mid-fifties. Vehicle has excellent mobility and can carry entire firing crew of six.

Unguided Rockets

BM-25 250mm Rocket Launcher



Characteristics

	KRAZ-214 general
	purpose truck
Weight (with full	
rocket load)	18.7 tons
Cruising range	330 miles
Rocket load	6
Range of rocket	• •
maximum	61,000 yards
minimum	19,700 yards
Propellant	liquid

Remarks

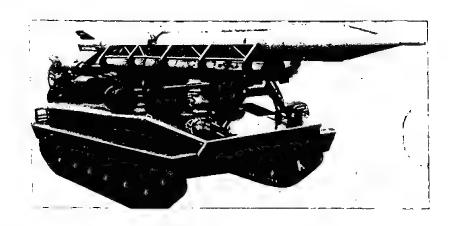
Largest multiple rocket launcher in Soviet army. First observed in 1957. Has six rockets in two banks of three open-frame launchers. Warhead slightly more effective than 8-inch artillery round.

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Unguided Rockets

FROG-3, 4, 5



Characteristics

	FROG-3	FROG-5
Launcher weight	All the Section	
(with rocket) Launcher cruising	15.7 tons	15.7 tons
range	155 miles	155 miles
Rocket weight	4,890 pounds	4,700 pounds
Warhead weight	1,100 pounds	900 pounds
Warhead diameter	21.1 inches	15.7 inches
Maximum range	AND THE WAR LOND TO	The state of the state of
HE and nuclear warheads	18 nautical miles	18 nautical miles
CW warhead	33 nautical miles	33 nautical miles
Propellant	solid	solid

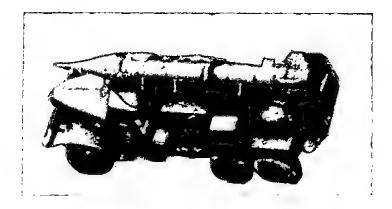
Remarks

All are mounted on chassis of PT-76 light amphibious tank, but none is amphibious. They differ only in the size and contents of their warheads. FROG-3 carries a nuclear warhead, and could also carry tactical CW and HE warheads. FROG-5 is a trainer which carries a concrete-filled dummy warhead and a mass-fill HE warhead. Another version, the FROG-4, has not been seen in recent years, and its operational status is unknown. FROG-3 and FROG-4 were first observed in 1960, and FROG-5 in 1964. FROGs have been seen with Soviet and other Warsaw Pact forces and in Cuba. Being replaced with FROG-7 in Soviet and other Warsaw Pact forces.

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Unguided Rockets

FROG-6



Characteristics

Vehicle ZIL-157 truck Launcher weight (with rocket) 8.7 tons Rocket weight 2,000-2,500 pounds

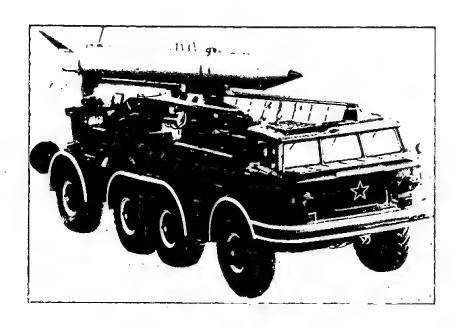
Remarks

A nonfiring training system. First observed in 1965. Seen with Soviet and East German forces.

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Unguided Rockets

FROG-7



Characteristics

Launcher weight
(with rocket)about 13 tons
Launcher cruising range 310 miles
Rocket weight5,000-6,000 pounds
Warhead weight
HE 1,200 pounds
nuclear
chemical 850 pounds
Maximum range 37-43 nautical miles
Propellantsolid

Remarks

First observed in 1965. Eight-wheel launcher provides greater mobility than tracked launcher. FROG-7 is distinguishable from earlier FROGs by single motor section as opposed to two in tandem. FROG-7 is replacing older FROGs in first-line Soviet and Warsaw Pact divisions and has been exported to the Middle East.

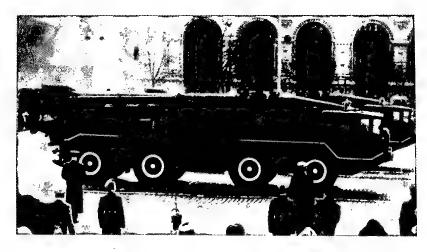
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Short-Range Ballistic Missile Systems

Scud



Scud B

Characteristics

	Scud A	Scud B
Warhead type	HE/nuclear/CW	same
Warhead weight	1,500-2,800 pounds	2,200 pounds
Maximum range	86-118 nm	162 nm
Minimum range	30 nm	same
Maximum yield	40 kilotons	300 kilotons
Minimum yield	10 kilotons	5 kilotons
Transporter-erector-launcher	JS tank chassis	JS tank chassis MAZ-543

Remarks

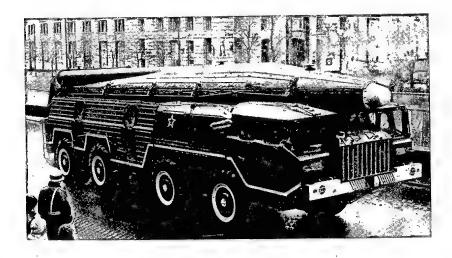
Army- and front-level weapon. Uses liquid propellant. Inertially guided. Found with Soviet and Warsaw Pact forces, as well as those of other Soviet allies.

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Short-Range Ballistic Missile Systems

Scaleboard



Characteristics

Warhead type .	nuclear
Warhead weight	1,000-1,300 pounds
	500 nm
Minimum range	unknown
Maximum yield	200 kilotons
	30 kilotons
Transporter-erec	tor-launcher MAŻ-543

Remarks

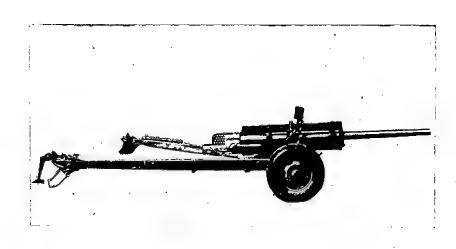
Introduced in 1965. Front-level weapon. Inertially guided, twostage, solid-propellant missile carried in environmental pod. Found only in the Soviet Union.

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Artillery

M-1943 57mm Antitank Gun



Characteristics

Weight	1.4 tons
Maximum rate of fire	25 rounds per minute
Maximum range	
(indirect fire)	9,200 yards

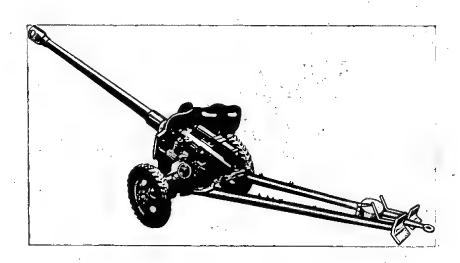
Remarks

World War II piece replaced in Soviet forces by larger caliber weapons and antitank missiles, but still widely used in countries which have received Soviet military aid.

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	Artillery	
	M-1942 76mm Divi	sional Gun
		,
j	Characteristics	
7	Weight	
J	(indirect fire)14,550 yards	
	Remarks World War II gun once widely used in Soviet forces as both field artillery piece and antitank weapon. Replaced by 85mm and 100mm	
	pieces and now used primarily for training. Still standard equipment in many countries which have received Soviet military aid.	
	en e	
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Artillery

D-44 85mm Field Gun



Characteristics

Remarks

Essentially the same as T-34/85 tank gun. Used as both field artillery piece and antitank weapon. Normally towed, but auxiliary-propelled version also in use. D-44 has largely been replaced in Soviet forces by M-1955 100mm field gun, but is still widely used in other Warsaw Pact forces and in countries which have received Soviet military aid.

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	Artillery
	BS-3 100mm Field Gun (M-1944)
]	Characteristics
	Weight
	(indirect fire)
	Remarks
	Fires same ammunition as T-54/55 tank gun. Entered service near close of World War II. Used as both field artillery piece and antitank weapon. Largely replaced by M-1955 100mm field gun. BS-3 is
]	distinguishable by dual tires and recoil mechanism which protrudes beyond shield below barrel. Obsolete in Soviet forces but still used in other Warsaw Pact forces and in countries which have received Soviet military aid.

	y Approved for Release 2012/08/23 : CIA-RDP05S02015R0001000400	
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	Artillery	U
	M-1955 100mm Field Gun	
	Characteristics	
Ma: Ma:	ight	
(in	ndirect fire) 23,000 yards	
Introduc	Remarks sed in mid-fifties. Fires same shell as BS-3 but is lighter	
and disting	uishable from BS-3 by recoil mechanism above barrel and	

Introduced in mid-fifties. Fires same shell as BS-3 but is lighter and distinguishable from BS-3 by recoil mechanism above barrel and behind shield and by single tires. A later version of M-1955 has longer barrel and smooth bore. Used as both field artillery piece and antitank weapon. Has largely replaced BS-3 in Soviet units and is used by other Warsaw Pact forces and countries which have received Soviet military aid.

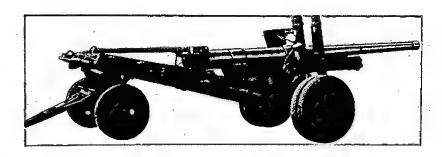
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	Artillery
	T-12 100mm Antitank Gun
0	Characteristics Weight
	Maximum range (indirect fire)
	Remarks
	Resembles the M-1955 field gun. A modified version, the T-12A, was first observed in East Berlin in 1972. The T-12 is also found in East Germany, Yugoslavia, North Korea, and Cuba.
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Artillery

A-19 122mm Corps Gun (M-1931/1937)



Characteristics.

Weight	8.7 tons
	5-6 rounds per minute
Maximum range ~	
(indirect fire)	22,750 yards

Remarks

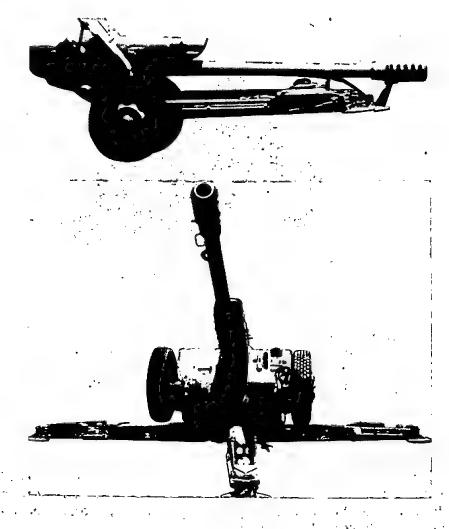
Postwar versions have dual pneumatic or sponge-rubber-filled tires in place of spoked wheels with solid rubber tires on early models. Obsolete in Soviet forces but still used in other Warsaw Pact countries.

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	Artillery
0	M-30 122mm Howitzer (M-1938)
	Characteristics
	Weight
	Maximum range
	Remarks Being replaced in Soviet and some Warsaw Pact forces by D-30 howitzer. Still standard equipment in other Warsaw Pact forces and
0	countries which have received Soviet military aid.
0	
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Artillery

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D-30 122mm Howitzer (M-1963)



Characteristics

Remarks

Rests on three trails and central jack when in firing position. Towed by barrel with trails folded. Has direct-fire antitank capability. Replacing M-30 howitzer as standard equipment in Soviet forces. Has also been seen with Egyptian and Syrian units.

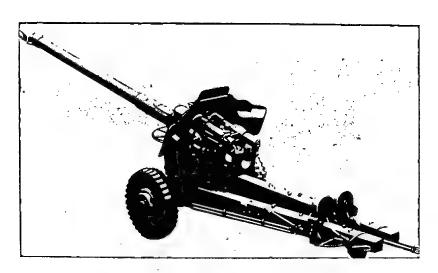
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Artillery

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D-74 122mm Field Gun



Characteristics

Remarks

Lighter and more mobile than M-1931/1937. Has double recoil cylinders mounted above barrel behind shield. First observed in 1955. Used by Soviet and some other Warsaw Pact forces and by Communist forces in Southeast Asia.

SECRET		
	Artillery	
	M-1974 122mm SP Gun	
		١
	Characteristics	
·	Weight	
	Rate of fireunknown	

Remarks

Entered service in 1974. Chassis similar to that of PT-76 amphibious tank. Newest piece in the Soviet artillery inventory. Probably has an automatic loader.

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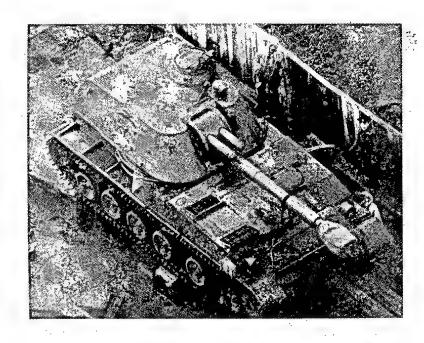
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	Artillery
	M-46 130mm Field Gun
	Characteristics
	Weight
	(indirect fire)
	Remarks
	Based on naval and coastal guns of same caliber. Features collar around barrel forward of shield and detachable spades on trails. First observed in 1954. Used by Soviet and other Warsaw Pact forces and in Middle East and India.
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		, Artillery	·
स प्राप्त स्टब्स्ट हुई,	uproff of the		D-1 152mm Howitzer (M-1943)
· ·			
	Weight	Characteristics	4 tons
	Maximum rang	of fire4 ro	13,560 yards
	and subtracting	Remarks	and the second of the second o
	carriage of the M-193 because of lighter car	38 122mm howitzer. N riage. Now largely repl	owitzer mounted on the More mobile than M-10 laced in Soviet units by forces and in countries
	which have received \$	Soviet military aid.	
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	and the second against the configuration of the second against the sec
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	Characteristics
7	Weight
	Maximum rate of fire
	D a constant
7	Remarks First observed in 1955. Replacing D-1 152mm howitzer. D-20 is
~9	companion piece to D-74 122mm howitzer and distinguishable from it by shorter, thicker barrel and larger muzzle brake. Used by USSR
7	and several other Warsaw Pact countries.
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Artillery

M-1973 152mm SP Gun



Characteristics

Weight			26 tons
Main armament .	eneja Portonija propinska		152mm gun
Maximum range		· · · · · · · · · · · · · · · · · · ·	. 19,000 yards
Rate of fire			unknown

Remarks

Entered service in 1973. Uses modified version of the SA-4 chassis. Probably has an automatic loader.

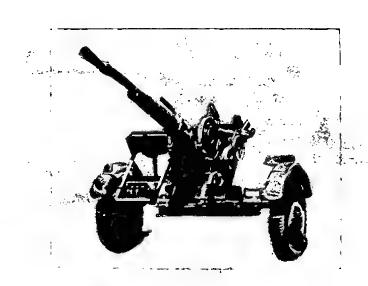
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	Artillery	
	M-1955 180mm Ho	witzer
	Characteristics	
	Weight	
	Maximum range with rocket-assisted projectile 42,500 yards	
	Remarks	
	Largest of Soviet towed artillery pieces since World War II. Has dual-mounted wheels but no shield. Shown in Soviet parades but not observed with operational units. Observed in Middle East.	
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	and the second of the second o	
·	計画では経過性を経過性では、 M-1931 203mm Ho の時 3 min をなる 4 444 **	witzer
A		
	Characteristics Weight	
	Maximum range	
	recenses the least of the second of the seco	
 	Principal heavy howitzer of Soviet Army before and during World War II. Being reintroduced into service in heavy artillery/mortar	- Fl
	brigades at front level. Tracked and wheeled versions.	П
	in the second of	
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Antiaircraft Weapons

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ZPU-1 14.5mm Antiaircraft Heavy Machine Gun



Characteristics

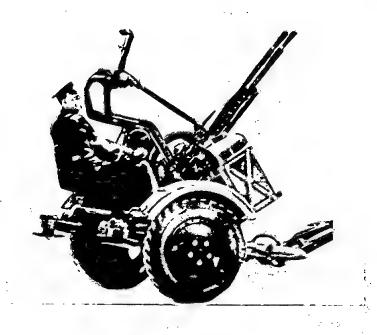
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Remarks

Single gun mounted on light two-wheel towed carriage. Also effective against light armor and other ground targets. Introduced in mid-fifties. Apparently no longer used in Soviet forces. Seen in countries which have received Soviet military aid. Widely used in North Vietnam.

Antiaircraft Weapons

ZPU-2 14.5mm Antiaircraft Heavy Machine Gun



Characteristics

Maximum rate of fire600 roo	
Practical rate of fire150 roo	per barrel unds per minute
Marian according	, per barrel
antiaircrafthorizontal	

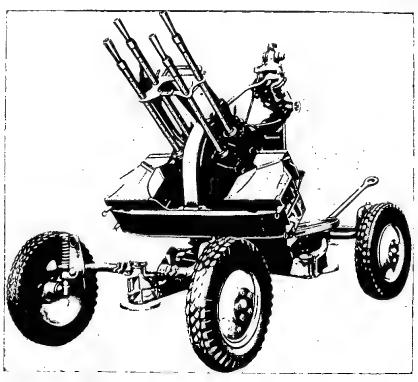
Remarks

Twin-mounted version of ZPU-1 on two-wheel towed carriage. This mount also seen on BTR-40 and BTR-152 armored personnel carrier chassis. Introduced in mid-fifties, ZPU-2 is used in Soviet and other Warsaw Pact forces and in countries which have received Soviet military aid.

SECRET

Antiaircraft Weapons

ZPU-4 14.5mm Antiaircraft Heavy Machine Gun



Characteristics

Maximum rate of fire600 rounds per minute
Practical rate of fire150 rounds per minute
per barrel Maximum effective range
antiaircraft

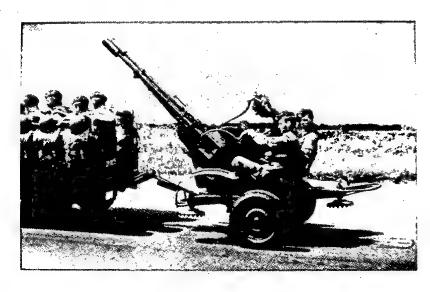
Remarks

Quad-mounted version of ZPU-1 on four-wheel towed carriage. Introduced in mid-fifties. Used in Soviet and other Warsaw Pact forces and in countries which have received Soviet military aid.

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Antiaircraft Weapons

ZU-23 23mm Antiaircraft Gun



Characteristics

Maximum rate of fire	800-1,000 rounds per
	minute per harrel
Practical rate of fire	200 rounds per minute
	per barrel
Maximum effective range	
Maximum effective range antiaircraft	
horizontal	7,655 yards

Remarks

Twin-barrel machine cannon mounted on light two-wheel carriage similar to that of ZPU-2. Cylindrical muzzle brakes distinguishable from conical type on ZPU-2. ZU-23 also effective against light armor and other ground targets. Introduced in early sixties. Will probably replace ZPU series of heavy machine guns.

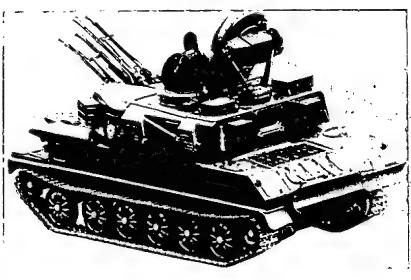
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Antiaircraft Weapons

END FRANKIE OF THE STEELS

ZSU-23-4 23mm Self-Propelled Antiaircraft Gun

20 1 1848 206 9



Characteristics

Maximum rate of fire	800-1,000 rounds per
Practical rate of fire	. 300-350 rounds per minute per barrel
Maximum effective range	4
antiaircraft radar mode	
antiaircraft optical mode	
horizontal	
Maximum vehicle speed	
Cruising range	
Weight	
Crew	
But the way of the second of the second	
MARKET CONTRACTOR OF THE STATE OF THE STATE OF	Jan & July & Miller
Remarks .	myre to the my

Four liquid-cooled guns in very light armored turret mounted with fire-control radar on chassis similar to that of PT-76 light amphibious tank. Not amphibious. Designed to provide ground forces mobile protection against low-flying aircraft. Also effective against light armor and other ground targets. Infrared light enables it to engage ground targets at night. First observed in 1965. Has been seen with Soviet, Bulgarian, East German, Polish, and Middle East forces.

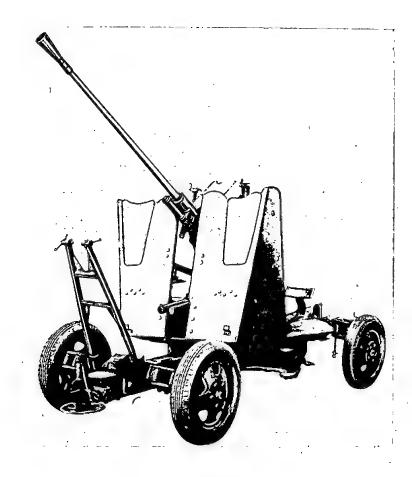
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Antiaircraft Weapons

M-1939 37mm Antiaircraft Gun



Characteristics .

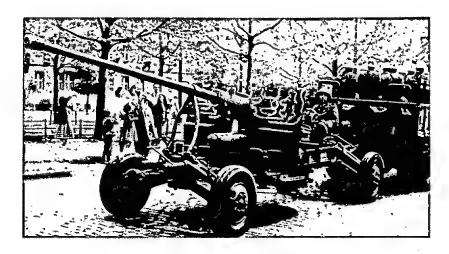
Maximum rate of fire	. 160-180 rounds per minute
Practical rate of fire	80 rounds per minute
Maximum effective	·
antiaircraft range	8,200 feet

Remarks

World War II weapon mounted on four-wheel towed carriage. Not suitable for use against ground targets. Replaced in Soviet forces by S-60 but still used in other Warsaw Pact countries, Cuba, Middle East, and Southeast Asia.

Antiaircraft Weapons

S-60 57mm Antiaircraft Gun



Characteristics -

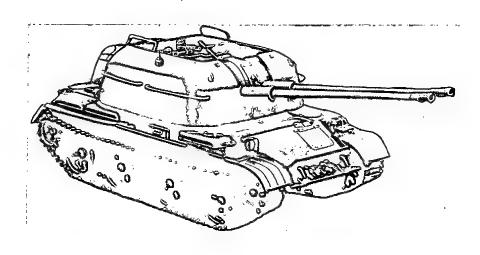
Maximum rate of fire	105-120 rounds per minute
Practical rate of fire	70 rounds per minute
Maximum effective antiaircraft ra	
with off-carriage fire control	
with on-carriage optical sight .	13,100 feet
Maximum horizontal range	

Remarks

Mounted on four-wheel towed carriage. Also effective against light armor and other ground targets. First observed in 1950. Has replaced M-1939 in Soviet forces. Used in countries which have received Soviet military aid.

Antiaircraft Weapons

ZSU-57-2 57mm Self-Propelled Antiaircraft Gun



Characteristics

Maximum rate of fire 105-120 rounds per minute
Practical rate of fire70 rounds per minute
per gun
Maximum effective range
antiaircraft
horizontal
Vehicle speed
Cruising range
Weight
Crew

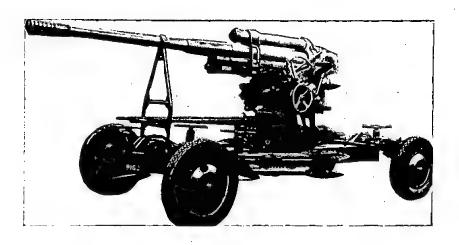
Remarks

Two S-60 guns in open turret mounted on modified T-54 tank chassis. Optical sighting and fire control. Designed to provide ground forces mobile protection against aircraft. Also effective against light armor and other ground targets. Introduced in 1957. Has been seen with Soviet and other Warsaw Pact forces and in countries which have received Soviet military aid. Has largely been replaced in Soviet units by ZSU-23-4 and surface-to-air missile systems.

SECRET

Antiaircraft Weapons.

KS-12 85mm Antiaircraft Gun (M-1939)



Characteristics

Maximum rate of fire	. 15-20 rounds per minute
Maximum effective antiaircraft ran	ge
with off-carriage fire control	33,470 feet
with on-carriage optical sight	9,840 feet
Maximum horizontal range	17,000 yards

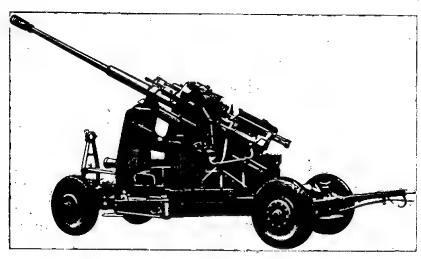
Remarks

World War II weapon mounted on four-wheel towed carriage. Uses on-carriage optical sight or off-carriage radar fire control. Essentially same gun as KS-18 but with longer tube. Both are also effective against light armor and other ground targets. Has been replaced by KS-19, but still used by Soviet and other Warsaw Pact forces and in countries which have received Soviet military aid.

SECRET

Antiaircraft Weapons

KS-19 100mm Antiaircraft Gun



Characteristics

Maximum rate of fire	15 rounds per minute
Maximum effective antiaircraft range	
with off-carriage fire control	41,340 feet
with on-carriage optical sight	
Maximum horizontal range	23,000 yards

Remarks

First observed in 1949. Uses off-carriage fire control and director against aircraft. Designed to replace KS-12 and KS-18, it has in turn been replaced by SA-2 surface-to-air missiles. Also effective against light armor and other ground targets.

SECRET

Recoilless Antitank Weapons

RPG-2 Antitank Grenade Launcher



Characteristics

Weight6.3 pounds
Length37.5 inches
Caliber of projectile80mm
Range
Armor penetration6-7 inches

Remarks

Light, recoilless, shoulder-fired rocket developed from German "Panzerfaust" in late forties. Effective against tanks at short range. Has been largely replaced by RPG-7. Used in most countries which have received Soviet military aid.

RPG-7 Antitank Grenade Launcher



Characteristics .

Weight									15	pound	s
Length								.3	37.	5 inche	S
Caliber	of pr	ojecti	le		4					85mn	n
Range									. 6	08 yard	ls
Armor	penet	tration	1						. 1	2 inche	s

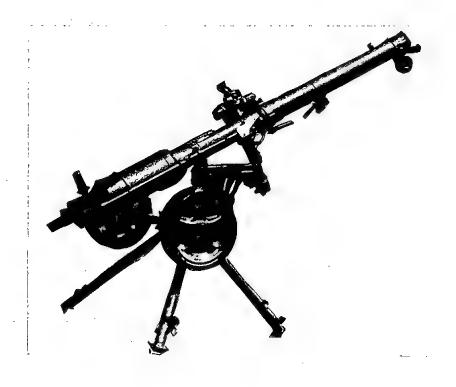
Remarks

Introduced in 1962. Essentially same type of weapon as RPG-2, which it is replacing. RPG-7 fires rocket-assisted projectile having greater range, penetration, and accuracy. Used in USSR and other Warsaw Pact countries, in Middle East, and in Southeast Asia.

SECRET

Recoilless Antitank Weapons

B-10 Recoilless Gun



Characteristics

Weight			 				188 pounds
Length			 				6.4 feet
Caliber			 			•	82mm
Effective	e rang	е.	 				435 yards
Armor p	penetra	ation					9.4 inches

Remarks

Smoothbore recoilless weapon fired from two-wheel mount or tripod. Can be hand towed by bars on muzzle or mounted on truck. Introduced in early fifties. Used in Soviet airborne units and other Warsaw Pact forces.

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	SECRET
	Recoilless Antitank Weapons
7	B-11 Recoilless Gun
=	<u> </u>
7	Characteristics 670 pounds
	Weight
]	
	Remarks Largest Soviet recoilless weapon. Fired from wheeled mount or from tripod with wheels removed. Introduced in early fifties. Nearly obsolete in Soviet units but still used by other Warsaw Pact forces.
	Obsolete in Joviet units but still used by other warsaw ract forces.
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Recoilless Antitank Weapons

SPG-9 Recoilless Gun



Characteristics

Weight	41					. abo	out 125 pounds
Length							about 7 feet
Caliber							73mm
Maximι	ım	ef	fect	ive r	ange		1,090 yards
Armor _I	oei	net	ratio	on .			13-15 inches

Remarks

Pictured in 1968 Soviet publication. First Soviet recoilless gun to mount a spotting rifle. Fires round similar to that of RPG-7 grenade launcher.

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	Mortars	SECRET
Н		
	M-1937, M-	1941, M-1943 82mm Mortar
		·
		•
	Characteristics	

Weight 123 pounds
Length of tube
Maximum rate of fire24 rounds per minute
Maximum range 3,300 yards

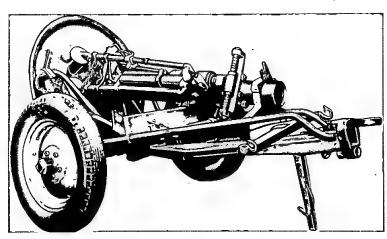
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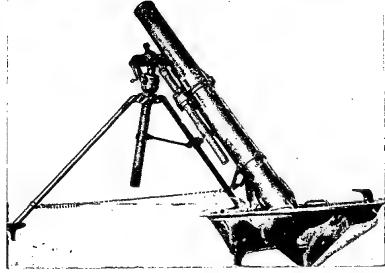
M-1937 (photograph above) has two short shock absorbers; M-1941 and M-1943, one longer shock absorber. Weapon can be carried by three men or one draft animal. Used by countries which have received Soviet military aid.

SECRET

Mortars

M-1938, M-1943, 120mm Regimental Mortar





	Characteristics	
	Weight	
	with limber	
	without limber 606 pounds	
	Length of tube	
۲		
3,66	Maximum rate of fire15 rounds per minute Maximum range 6,230 yards	

Remarks

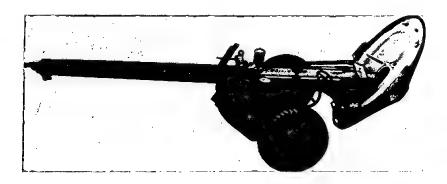
Two versions—M-1943 (photographs above) and M-1938—are complementary to 82mm mortars. Despite its large size, 120mm mortar is highly mobile and can be towed on limber or broken down into three man-portable loads. Used by Soviet and other Warsaw Pact forces and in countries which have received Soviet military aid. Widely used by Communist forces in Southeast Asia.

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	Mortars	
	M-1943, M-160 160mm Mortar	
	Control of the contro	
]		
	. Characteristics	
	Weight with limber	
	Length of tube	
	Remarks	
]	Two versions—M-1943 and M-160—can be towed on limber. M-1943 being replaced by M-160 which has longer barrel and is breech loaded. Both versions are used by Soviet and other Warsaw	
	Pact forces and in countries which have received Soviet military aid.	
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Mortars

M-240 240mm Mortar



Characteristics

Weight	
with limber	4.6 tons
without limber	
Length of tube	17.5 feet
Maximum rate of fire	. 1 round per minute
Maximum range	10,600 yards

Remarks

Largest standard Soviet mortar, Breech loaded, Introduced in early fifties. Found in heavy howitzer/mortar brigades in USSR. Also used in some Warsaw Pact forces and in Egypt.

SECRET

Small Arms and Machine Guns

M-1891/30 Mosin—Nagant Sniper Rifle



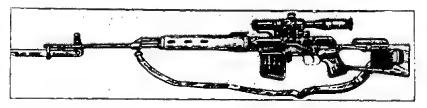
Characteristics

Weight		
Ammunition	7.62mm	M-1908 rimmed
Operation		. : . turning bolt
Magazine capacity .		5 rounds
Effective range		
(with scope)		875 yards

Remarks

Sniper version of M-1891/30, which was standard Soviet rifle from 1891 to 1944. Sniper rifle still used in USSR, Eastern Europe, and China, and by Communist forces in Southeast Asia. Being replaced in Soviet units by Dragunov.

SVD Dragunov Sniper Rifle



Characteristics

Weight9.4 pounds
Ammunition 7.62mm M-1908 rimmed
Operation gas, semiautomatic
Magazine capacity10 rounds
Effective range
(with scope) 1,100 yard

Remarks

Introduced in mid-sixties. Based on AK-47 but has longer barrel, redesigned trigger, and flash suppressor. Side-mounted 4-power scope with infrared viewing device.

SECRET

Small Arms and Machine Guns

M-1944 Mosin—Nagant Carbine



Characteristics

Weight		8.6 pounds
Ammunition7	7.62mm	M-1908 rimmed
Operation		bolt
Magazine capacity		5 rounds
Effective range		440 yards

Remarks

Last of the Mosin-Nagant rifles. Replaced M-1891/30 as standard Soviet rifle. M-1944 is shorter and has folding bayonet. Was itself replaced in Soviet forces by SKS and AK-47, but is still used in some Warsaw Pact and Asian Communist countries.

SKS Simonov Carbine



Characteristics

Weight
Ammunition 7.62mm M-1943 short round
Operation gas, semiautomatic
Rate of fire 35-40 rounds per minute
Magazine capacity10 rounds
Effective range

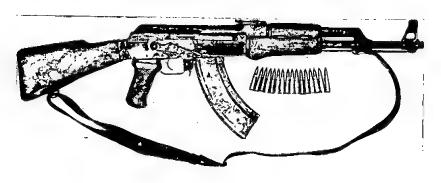
Remarks

Introduced in 1959. Replaced in Soviet forces by AK-47. Still used in other Warsaw Pact forces and in countries receiving Soviet military aid. Also manufactured and extensively exported to Asian and African countries by China. Chinese version distinguishable from SKS by bayonet which folds down under barrel.

S	ECRET

Small Arms and Machine Guns

AK-47 Kalashnikov Assault Rifle



Characteristics

Weight
Operation gas
Rate of fire
automatic100 rounds per minute
semiautomatic40 rounds per minute
Magazine capacity30 rounds
Effective remains
Effective range330 yards

Remarks

Introduced in 1947. Being replaced by the AKM, which is nearly identical but almost a pound lighter. Versions with folding stock are used by special units such as artillery, airborne, and tank troops. AK-47 is used by Warsaw Pact forces, in countries which have received Soviet military aid, and extensively by Communist forces in Southeast Asia. China and North Korea produce version of AK-47.

SECRET

Small Arms and Machine Guns

PPSh Shpagin Submachine Gun (M-1941)



Characteristics

Weight (with empty drum) 10.8 pounds
Ammunition7.62mm M-1930 pistol
Operation blowback, automatic or
semiautomatic
Rate of fire
automatic 100 rounds per minute
Magazine capacity
box35 rounds
drum71 rounds
Effective range220 yards

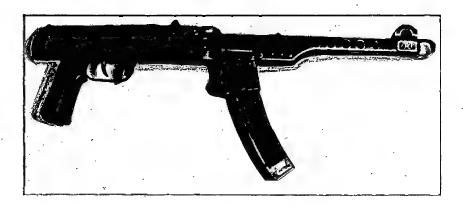
Remarks

Ruggedly and cheaply built. First models used drum magazine. Has been replaced in Soviet forces by AK-47. China manufactures version called Type 50 with about the same performance. Type 50 has pistol grip and folding stock but no barrel shield. PPSh and Type 50 are used in countries which have received Soviet and Chinese military aid.

SECRET

Small Arms and Machine Guns

PPS Sudayev Submachine Gun



Characteristics

Weight (with	
empty magazine)	7.5 pounds
Ammunition	7.62mm M-1930 pistol
Operation	. blowback, automatic or
	semiautomatic
Rate of fire	100 rounds per minute
Magazine capacity .	35 rounds
Effective range	220 yards

Remarks

Entered service in 1943. Like PPSh, has been replaced in Soviet forces by AK-47. PPS is lighter than PPSh, has folding stock, and operates only with box magazine. Used extensively in Southeast Asia.

SECRET

Small Arms and Machine Guns

DP, DPM Degtyarev Light Machine Gun



Characteristics

Weight	20 pounds
Ammunition	7.62mm
Operation g	
Rate of fire150 round	ds per minute
Magazine capacity	47 rounds
Effective range	880 yards

Remarks

Introduced in late twenties. DP together with DPM modified version was standard Soviet squad light machine gun until introduction of RPD in 1949. DP and DPM have slotted barrel casing and pan-type magazine mounted on top of gun. Although obsolete in Soviet forces, they are used in countries which have received Soviet military aid. Similar RP-46 model uses belt feed and has handle on top.

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	Small Arms and Machine Guns
	RPD Light Machine Gun
	Ch and atomistics
	Characteristics Weight (loaded)15.6 pounds
	Ammunition
	Rate of fire150 rounds per minute Magazine capacity100 rounds Effective range875 yards
	Remarks
. r	First observed in 1948. Standard squad automatic weapon until replaced by RPK. Has drum magazine and bipod mounted near muzzle. Used in countries—particularly in Southeast Asia—which
	nave received Soviet military aid.
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SECRET

Small Arms and Machine Guns

RPK Kalashnikov Light Machine Gun



Characteristics

Weight (with	
empty drum)	12.3 pounds
Ammunition	7.62mm M-1943 short round
	gas, automatic
	130-150 rounds per minute
Magazine capacit	y
box	40 rounds
drum	
Effective range	

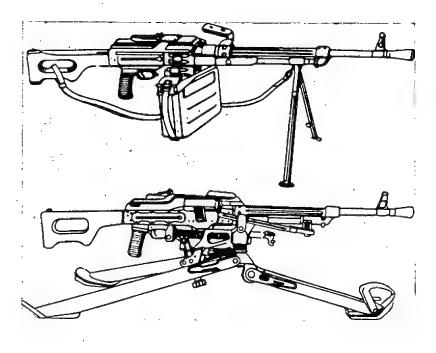
Remarks

Standard Soviet squad light machine gun. Introduced in 1961. Essentially the AK-47 assault rifle with longer, heavier barrel, bipod, differently shaped stock, and larger capacity magazine. Some parts are interchangeable; for example, AK-47 magazine can be used on RPK. RPK is used in some Warsaw Pact and Southeast Asian forces.

SECRET

Small Arms and Machine Guns

PK Kalashnikov General Purpose Machine Gun



Characteristics

Weight (with empty drum)
Ammunition 7.62mm M-1943 short round
Operation gas, automatic
Rate of fire 130-150 rounds per minute
Magazine capacity
box 40 rounds
drum 70 rounds
Effective range

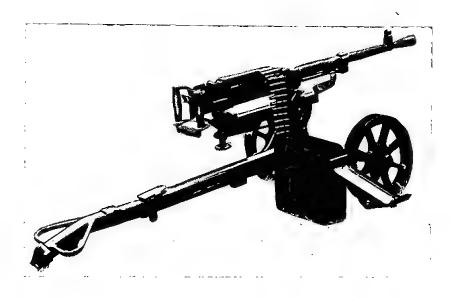
Remarks

A further modification of AK-47 and RPK. PK uses rimmed cartridge, is belt fed, has different receiver and gas cylinder, and provision for mounting gun on tripod. First observed in mid-sixties.

SECRET

Small Arms and Machine Guns

SG, SGM Goryunov Machine Gun (M-1943)



Characteristics

Weight (gun only)	29.8 pounds
Ammunition	7.62mm M-1930D
Operation	
Rate of fire 250-300	rounds per minute
Effective range	about 1,100 yards

Remarks

Has been modified for mounting on tanks and APCs, but usually found on two-wheel mount. SGM distinguishable by fluted barrel. Being replaced in ground support role by PK Kalashnikov general purpose machine gun. Used by countries which have received Soviet military aid.

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Characteristics

Weight (gun only)	
Ammunition	12.7mm rimless
Operation	gas, automatic
Rate of fire	125 rounds per minute
Effective range	
	3,300 yards
air targets	3,000 feet

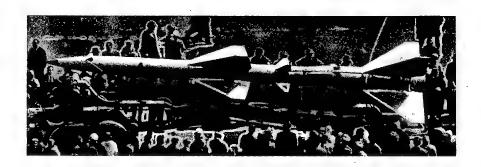
Remarks

Designed for use against aircraft and light armored ground targets, and adopted as primary AA machine gun on tanks and assault guns. Ground version is mounted on two-wheel carriage. Vehicle-mounted version is being replaced in Soviet units by KPV 14.5mm heavy machine gun, which is similar to ZPU-1. Used extensively and effectively by Communist forces in Southeast Asia as AA weapon, particularly against helicopters.

SECRET

Surface-to-Air Missiles

SA-2



Characteristics

IOC1958
Launchers per site
Maximum range27 nm
Maximum effective
altitude90,000 ft
Minimum effective
altitude300 ft
Guidance Radio command
Warhead HE/nuclear probable

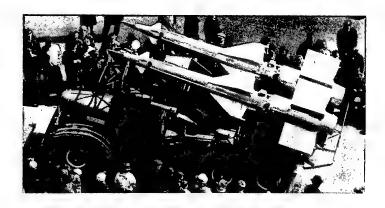
Remarks

Transportable. Used by East European countries and exported widely. Used against medium-to-high-altitude targets.

SECRET

Surface-to-Air Missiles

SA-3



Characteristics

IOC
Maximum effective
altitude60,000 ft
Minimum effective
altitude150 ft
Guidance Radio command
WarheadHE

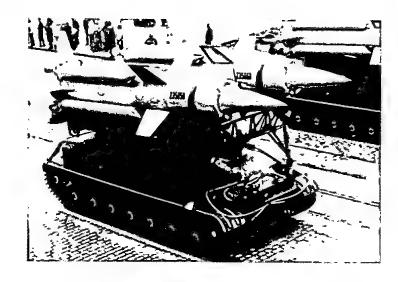
Remarks

Low-to-medium-altitude air defense system. Road transportable. Deployed widely in Eastern Europe, Cuba, and in the Middle East. Some sites also have new four-rail launcher.

SECRET

Surface-to-Air Missiles

SA-4



Characteristics

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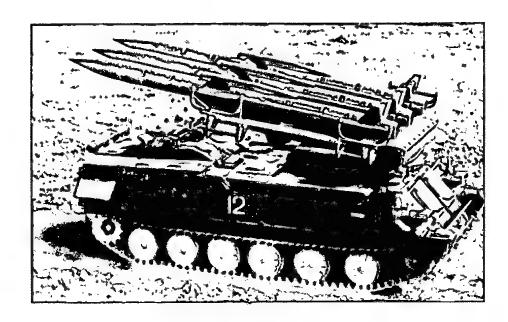
Remarks

Mobile system deployed primarily with Soviet field forces, but also exported to East Germany and possibly Czechoslovakia in limited numbers.

SECRET

Surface-to-Air Missiles

SA-6



Characteristics

IOC
Maximum range12 nm
Maximum effective
altitude30,000 ft
Minimum effective
altitude100 ft
GuidanceSemiactive homing
WarheadHE

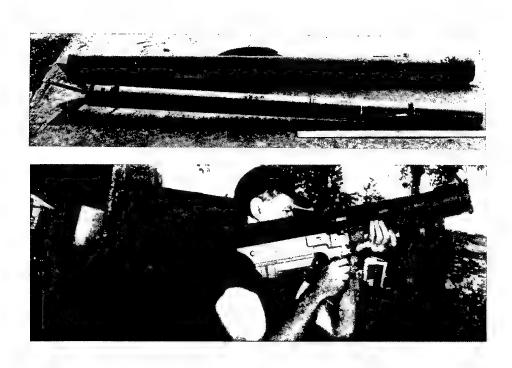
Remarks

Provides air defense for field forces. Effective as a low-to-mediumaltitude air defense weapon. Deployed with Eastern European armies and with Arab forces in the Middle East.

SECRET

Surface-to-Air Missiles

SA-7



Characteristics

IOC		1967
Maximum effe	ctive range	2.3 nm
Maximum effe	ctive	
altitude		7,500 ft
Minimum effect	ctive	
altitude		50 ft
Guidance		. Infrared homing
Warhead		

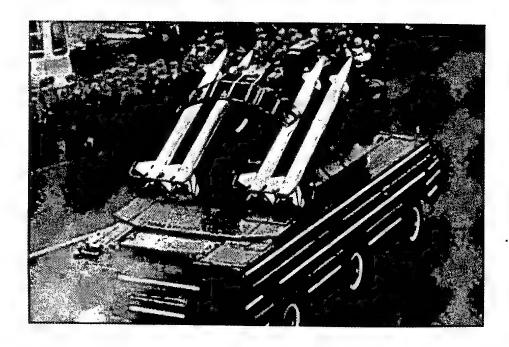
Remarks

Man-portable, shoulder-fired weapon. Effective against helicopters and slow-flying aircraft. Widely used by Communist armies and in the Middle East.

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Surface-to-Air Missiles

SA-8



Characteristics

IOC1974
Missiles per vehicle 4
Maximum range6 nm
Maximum effective
altitude15,000 ft
Minimum effective
altitude150 ft
Guidance Radio command
WarheadHE

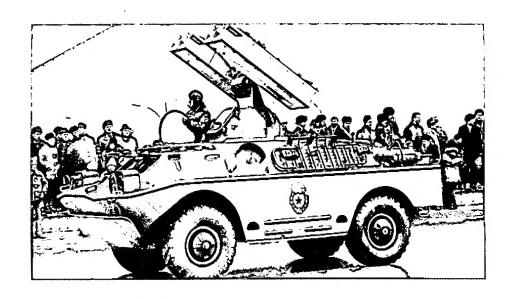
Remarks

Newest mobile tactical surface-to-air missile. Basic SA-8 vehicle contains acquisition and fire control radars as well as launchers. Only missile system with basic fire components on a single vehicle. Limited deployment within Soviet Union.

SECRET

Surface-to-Air Missiles

SA-9



Characteristics

IOC1968
Missiles per vehicle 4
Maximum range2.3 nm
Maximum effective
altitude11,800 ft
Minimum effective
altitude50 ft
Guidance Infrared homing
WarheadHE fragmentation
Launch vehicleBRDM-2 armored
scout car

Remarks

System is replacing low-altitude antiaircraft guns in combat units. Deployed with Soviet forces. Missiles are similar to the SA-7, but are more effective against high-performance aircraft.

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